Team ID	NM2025TMID03135
Project Name	Supply Leftover Food to Poor
Team Members	Hariharan M(812822205023) Hariharan K(812822205022) Aakash M(812822205001) Hari Pragadeesh V(812822205024)

2. Project Planning Phase — Supply Leftover Food to Poor

2.1 Introduction

This phase defines scope, deliverables, resources, timeline, and risk management for the NGO-focused food-recovery platform.

2.2 Project Scope

A web-based portal connecting donors, NGOs, and volunteers for efficient collection and redistribution of surplus food. Includes user management, scheduling, routing, safety checks, and analytics.

2.3 Objectives (repeated concisely)

Automate donation posting and pickup scheduling.

Ensure quick matching between donations and NGOs/volunteers.

Provide reporting for NGOs and administrators.

2.4 Deliverables

Fully functional web platform (role-based dashboards).

Donor onboarding flow and donation posting UI.

Volunteer scheduling and route optimization helper.

Food-safety checklist feature and quick verification.

Reporting dashboards and exportable reports.

Testing reports and final documentation.

2.5 Team Roles

M.Hariharan: Project Lead — coordinates stakeholders and documentation.

K.Hariharan: Backend Developer — API, database, scheduling logic.

M.Aakash: Frontend Developer — responsive dashboards, accessibility.

V.Hari Pragadeesh: Quality Analyst — functional, security, and performance testing.

2.6 Timeline (10 weeks)

Week 1–2: Requirement gathering with partner NGOs.

Week 3–4: System design and UI prototypes.

Week 5–7: Core development (donor posting, NGO workflows, scheduling).

Week 8–9: Integration, safety validation, and testing.

Week 10: Deployment and stakeholder training with sample NGOs.

2.7 Resources

Hardware: Standard developer machines and mobile devices for testing. Software: Node.js/Django backend option, React frontend, MySQL/Postgres DB. Tools: GitHub, Postman, JMeter, mapping API (e.g., Google Maps or Open-source alternative).

2.8 Risk Management

Food safety risk — implement mandatory donor safety checklist and time-window expiry for postings.

Scheduling delays — use real-time notifications and escalation rules.

Data privacy — store minimal donor contact data and secure all communications via HTTPS.